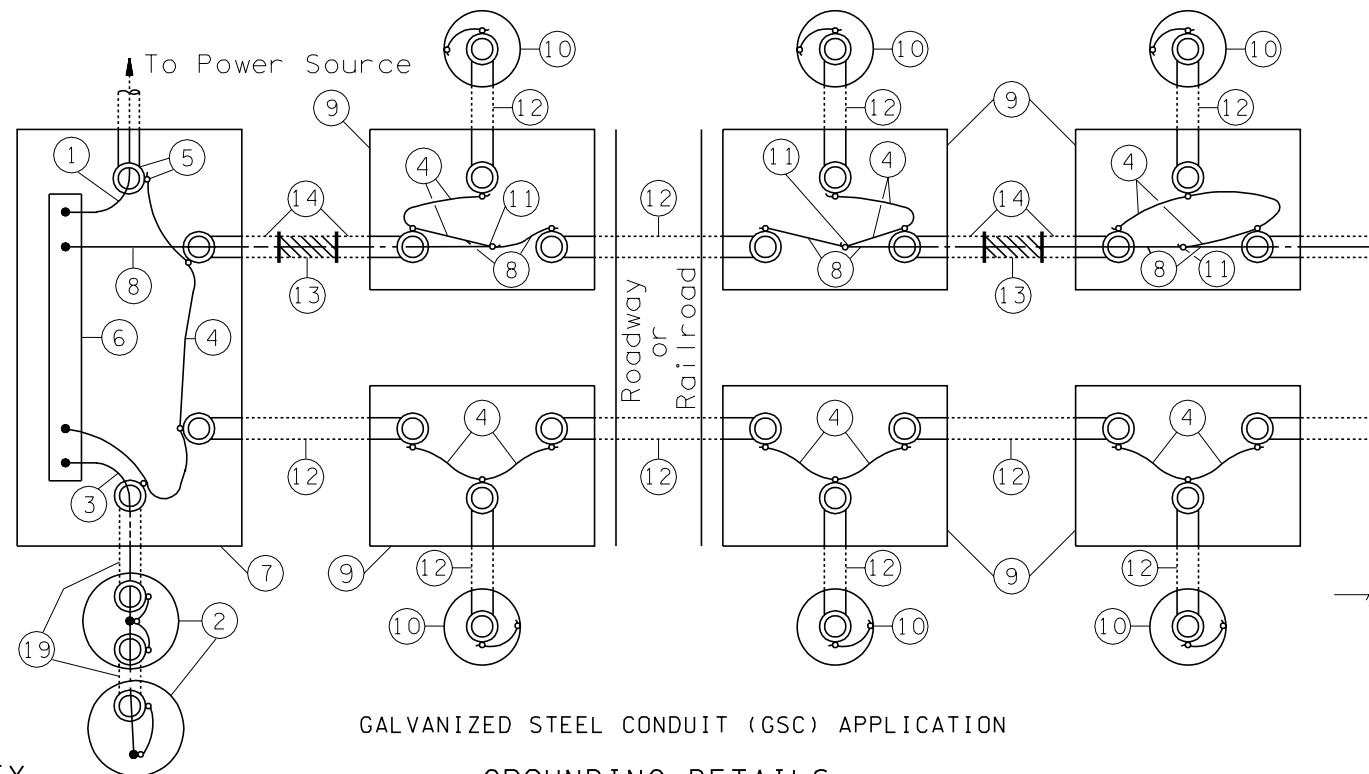


COMBINATION GALVANIZED STEEL CONDUIT (GSC)
AND NON-METALLIC CONDUIT (NMC) APPLICATION



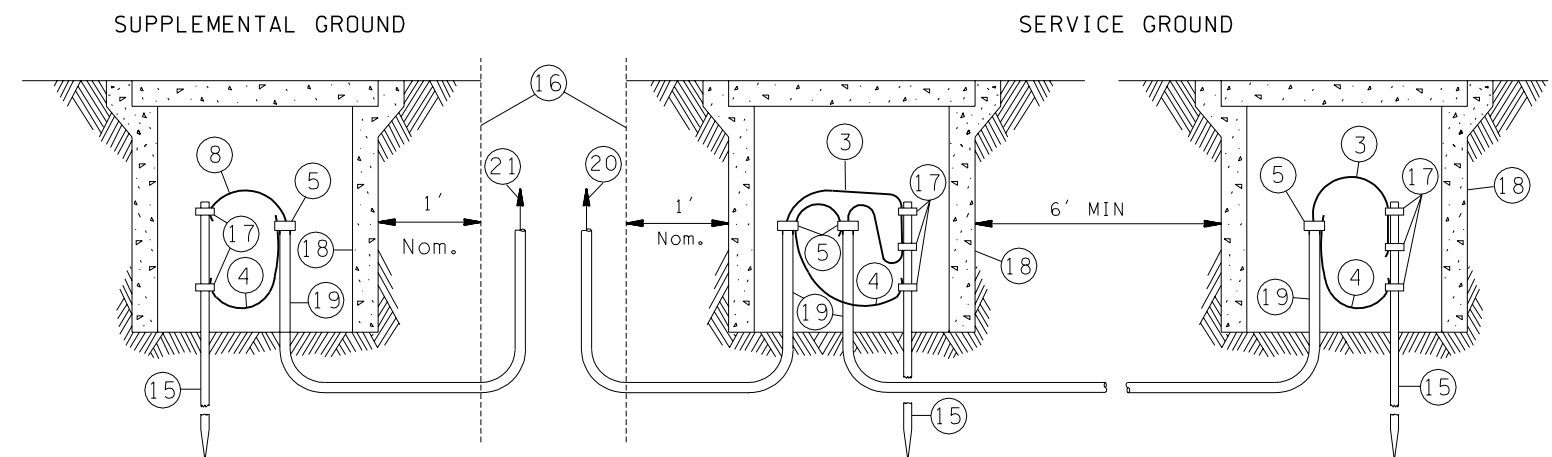
KEY

- ① Service Neutral
- ② Service Ground
- ③ Grounding Electrode Conductor
- ④ Bonding Jumper
- ⑤ Grounding Bushing (typ. all conduit terminations)
- ⑥ Service Neutral Bus (Copper)
- ⑦ Service Enclosure
- ⑧ Equipment Grounding Conductor
- ⑨ Junction Box
- ⑩ Electrical Load Support (luminaire pole)
- ⑪ Copper Split Bolt Clamp
- ⑫ Galvanized Steel Conduit (GSC)
- ⑬ Non-metallic Conduit (NMC)
- ⑭ Option A - 10' GSC with Field Bend
 - Approved Adapter Fitting
 - Grounding Bushing
- Option B - 10' GSC
 - GS Factory Elbows
 - Approved Adapter Fitting
 - GS Coupling
 - Grounding Bushing
- ⑮ Ground Rod
- ⑯ Edge of Foundation, Pole or Service Support
- ⑰ Clamp
- ⑱ Junction Box or 8" Drain Tile with Approved Cover
- ⑲ Code Sized GSC
- ⑳ To Service Neutral Bus
- ㉑ To Grounding Terminal or Connection to Equipment Grounding System

GROUNDING DETAILS

NOTES

1. If parallel circuits of different sizes are contained in one conduit, the size of the grounding conductor shall be determined on the basis of the largest conductor. Only one grounding conductor is required for each conduit regardless of the number of circuits contained.
2. Service ground per serving utility requirement. If the utility uses aluminum service conductors, an approved Al-Cu pressure type ground connector shall be used to secure the service neutral to the copper neutral bar in the service enclosure. Except for the above, all grounding conductors shall be copper.
3. Equipment grounding conductors and grounding electrode conductors shall be sized in accordance with the National Electric Code (No. 8 minimum).



Required to supplement equipment grounding for luminaire standards with direct burial, aerial feeds, or where required in plans.

Required at all services and separately derived systems.

GROUND ROD DETAILS



TYPICAL
GROUNDING DETAILS

STANDARD PLAN J-9a

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.			
APPROVED FOR PUBLICATION		DATE	
Clifford E. Mansfield		4/24/98	
DEPUTY STATE DESIGN ENGINEER		BY	
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION OLYMPIA, WASHINGTON		APPR'D	
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